### PATENT COOPERATION TREAT

## **PCT**

REC'D	13	JUL	2001	
WIPO		Arment at 1840	POT	•

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

14

(PCT Article 36 and Rule 70)

Applicant	s or ac	ent's file reference	<del></del>	
CM234		ones me relevence	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
Internatio	nal app	lication No.	International filing date (day/month	n/year) Priority date (day/month/year)
PCT/US	00/1	7638	27/06/2000	28/06/1999
Internation A61K7/		ent Classification (IPC) or na	tional classification and IPC	
Applicant				
THE PF	ОСТ	ER & GAMBLE COMP	ANY. et al.	
1. This and	intern s tran	ational preliminary exami smitted to the applicant a	nation report has been prepared coording to Article 36.	by this International Preliminary Examining Authority
2. This	REPO	ORT consists of a total of	7 sheets, including this cover si	neet.
	peen a	amended and are the bas	d by ANNEXES, i.e. sheets of the is for this report and/or sheets on the Administrative Instruction	e description, claims and/or drawings which have ontaining rectifications made before this Authority ons under the PCT).
Thes	e ann	exes consist of a total of	sheets.	
3. This	report	contains indications relat	ting to the following items:	
1	$\boxtimes$	Basis of the report		
П		Priority		
111	$\boxtimes$	Non-establishment of op-	pinion with regard to novelty, inv	entive step and industrial applicability
IV		Lack of unity of invention		
٧	×	Reasoned statement un citations and explanation	der Article 35(2) with regard to r ns suporting such statement	novelty, inventive step or industrial applicability;
VI		Certain documents cite		
VII	$\boxtimes$	Certain defects in the in	ternational application	
VIII	⋈	Certain observations on	the international application	
Date of sut	missio	n of the demand	Date of c	ompletion of this report
27/12/20	00		11.07.20	01
	exami	address of the international ning authority:	Authorize	ed officer
<u></u>	D-80	pean Patent Office 298 Munich +49 89 2399 - 0 Tx: 523656	Hillebre	echt, D
		+49 89 2399 - 4465		e No. +49 89 2399 8168

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/17638

I.	Ва	asis of the report	
1	tne an	e receiving Office in	ments of the international application (Replacement sheets which have been furnished to response to an invitation under Article 14 are referred to in this report as "originally filed" to this report since they do not contain amendments (Rules 70.16 and 70.17)):
	1-0	37	as originally filed
	Cla	aims, No.:	
	1-1	10	as originally filed
2.	. Wii lan	th regard to the <b>lang</b> guage in which the	guage, all the elements marked above were available or furnished to this Authority in the international application was filed, unless otherwise indicated under this item.
	The	ese elements were a	available or furnished to this Authority in the following language: , which is:
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pu	ablication of the international application (under Rule 48.3(b)).
			translation furnished for the purposes of international preliminary examination (under Rule
3.	Wit	h regard to any <b>nuc</b> rnational preliminar	leotide and/or amino acid sequence disclosed in the international application, the yexamination was carried out on the basis of the sequence listing:
		contained in the in	ternational application in written form.
		filed together with	the international application in computer readable form.
		furnished subsequ	ently to this Authority in written form.
		furnished subsequ	ently to this Authority in computer readable form.
		The statement that the international ap	the subsequently furnished written sequence listing does not go beyond the disclosure in oplication as filed has been furnished.
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.
4.	The	amendments have	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
5.		This report has bee	en established as if (some of) the amendments had not been made, since they have been eyond the disclosure as filed (Rule 70.2(c)):

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/17638

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6.	Add	ditional observations, if r	necessa	ıry:	
111.	No	n-establishment of opi	nion wi	th regard	d to novelty, inventive step and industrial applicability
1.	The obv	e questions whether the vious), or to be industrial	claimed ly applic	l invention cable hav	n appears to be novel, to involve an inventive step (to be non- e not been examined in respect of:
		the entire international	applica	tion.	
	×	claims Nos. 10.			
be	caus	se:			
	×	the said international a not require an internation see separate sheet	pplicatio	on, or the eliminary o	said claims Nos. 10 relate to the following subject matter which doe examination ( <i>specify</i> ):
		the description, claims that no meaningful opin	or draw ion cou	ings ( <i>indi</i> Id be forn	icate particular elements below) or said claims Nos. are so unclear ned (specify):
		the claims, or said clain could be formed.	ns Nos.	are so ir	nadequately supported by the description that no meaningful opinion
		no international search	report h	nas been	established for the said claims Nos
	and	eaningful international p /or amino acid sequence ructions:	relimina listing	ary exami to comply	nation cannot be carried out due to the failure of the nucleotide y with the standard provided for in Annex C of the Administrative
		the written form has not	been fu	urnished (	or does not comply with the standard.
					en furnished or does not comply with the standard.
<b>/</b> .	Rea citat	soned statement unde tions and explanations	r Article suppo	e 35(2) w rting suc	rith regard to novelty, inventive step or industrial applicability;
l. :	State	ement			
	Nov	elty (N)	Yes: No:	Claims Claims	3,4 1,2,5-10
l	Inve	ntive step (IS)	Yes: No:	Claims Claims	1-10
١	Indu	strial applicability (IA)	Yes:	Claims	1-9

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/17638

No: Claims

2. Citations and explanations see separate sheet

### VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

### VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Reference is made to the following documents:

D1: EP-A-0 287 876 (HENKEL) 26 October 1988

D2: US-A-5 804 205 (EPSTEIN ET AL.) 8 September 1998 cited in the application

D3: WO 99 27904 A (JOHNSON & SON INC.) 10 June 1999 cited in the application

III. For the assessment of the present claim 10 on the question whether it is industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

Claim 10 relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of this claim (Article 34(4)(a)(i) PCT).

- ٧. The subject-matter of the present claims is neither new nor involves an inventive step, in contrast to Article 33(1) to (3) PCT.
- 1. Present claim 1 claims a cosmetic composition comprising a quaternary ammonium agent and more than 0.5 % of a pantothenic acid compound.
- 2. D1 discloses compositions comprising 0.1 to 8 wt% panthenol and a quaternary ammonium compound. (D1, claims 1 and 3 and examples 1 to 7) The compositions are applied to the scalp, which is part of the skin.
- The present application is directed to the problem of providing compositions giving 3. the benefits of pantothenic acid derivatives without showing negative side-effects. The problem can be overcome by adding a quaternary ammonium compound to the composition.
  - It is submitted that the problem, if there is any, only can be solved when a considerable amount of quats is present. However, the application even includes

composition comprising solely minor amounts. The subject-matter of the claims thus cannot be regarded as inventive within the entire scope of the claims.

Moreover, a huge number of cosmetic products comprise cationic surfactants/ emulsifiers, which are generally quaternary ammonium compounds. Furthermore, panthenol etc. is well known for its beneficial effects to skin and hair and must be regarded as a conventional additive (D2, col. 4, lines 33 to 41). The skilled worker, who would like to add quaternary ammonium compounds in order to take the advantages of such compounds (cf. D2 and D3) would formulate respective compositions without involving an inventive step. Furthermore, D2 and D3 show compositions differing from the presently claimed ones, in that the amount of panthenol is below 0.5 wt%. Applicants did not show that this threshold has any significance in the present application nor is there any indication that the claimed compositions show any unexpected effect. In contrast, it appears to be strange that panthenol would irritate the skin while it is known to be effective in wound healing. However, the combination of both components in a skin care composition would appear to be very obvious.

The subject-matter of the dependent claims is either already known from D1 or at 4. least obvious to those skilled in the art.

#### VII.

- Compounds of formulae (IV), (V), and (VIII) on pages 8 and 9, respectively, do not 1. reflect ammonium compounds.
- 2. Obviously the names of the compounds on page 12 are not correct. Apparently these compounds should be regarded as "esterquats". However, e.g. the term "canolyl-oxy" reflects an alkyloxy group rather than an acyloxy (ester) group.
- The documents EP-A-789 076 and US-A-5880289 cited on pages 2 and 36, 3. respectively, are apparently not directed to the field of cosmetics or to a related technical field.

### VIII.

1. Claim 1 is silent on the basis for the amount of the pantothenic acid (e.g. % by

# INTERNATIONAL PRELIMINARY InterEXAMINATION REPORT - SEPARATE SHEET

International application No. PCT/US00/17638

wt.?), in contrast to Article 6 PCT.

2. The vague and imprecise statement in the description on page 27 "spirit of the invention" implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity (Article 6 PCT) when used to interpret them (see also the PCT Guidelines, III-4.3a).

### PATENT COOPERATION TREATY

From the	INTERNA	TIONAL	<b>BUREAU</b>
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	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION  (PCT Rule 61.2)	Commissioner US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202
Date of mailing (day/month/year)  08 February 2001 (08.02.01)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office
International application No. PCT/US00/17638	Applicant's or agent's file reference CM2341/2B
International filing date (day/month/year) 27 June 2000 (27.06.00)	Priority date (day/month/year) 28 June 1999 (28.06.99)
, , , , , , , , , , , , , , , , , , ,	20 0 0 10 10 00 (20.00.00)
Applicant	
EVANS, Erica, Louise et al	
in the demand filed with the International Preliminary  27 December 2  in a notice effecting later election filed with the International Preliminary  2. The election X was  was not  made before the expiration of 19 months from the priority of	2000 (27.12.00) national Bureau on:
Rule 32.2(b).	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Juan Cruz

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

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### **PATENT COOPERATION TREATY**

## **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report
CM2341/2B	ACTION (Form PCT/ISA	/220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 00/17638	27/06/2000	28/06/1999
	27700/2000	28/00/1999
Applicant		
   THE PROCTER & GAMBLE COMP	ANY of all	
THE PROCTER & GAMBLE COMP	ani. ec ai.	
		, ·· ···
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Au ansmitted to the International Bureau.	thority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
	a copy of each prior art document cited in th	is report.
1. Basis of the report	international appear was assigned out on the	and of the international analysis in the
	international search was carried out on the b ess otherwise indicated under this item.	asis of the international application in the
the international search w	as carried out on the basis of a translation of	the international application furnished to this
Authority (Rule 23.1(b)).	as carried out on the basis of a harristance.	the international approach termonous termo
b. With regard to any <b>nucleotide an</b> was carried out on the basis of the		international application, the international search
	e sequence listing : onal application in written form.	
l 😕	rnational application in computer readable fo	vrm.
furnished subsequently to	this Authority in written form.	
furnished subsequently to	this Authority in computer readble form.	
	osequently furnished written sequence listing s filed has been furnished.	does not go beyond the disclosure in the
		is identical to the written sequence listing has been
furnished	Annaton roomada in dempator rounde.	To identification the time sequence are a second
2. Certain claims were fou	nd unsearchable (See Box I).	
3. Unity of Invention is lac	king (see Box II).	
4. With regard to the title,		
the text is approved as su		
	thed by this Authority to read as follows:	T N
COSMETTIC COMPOSITIONS	CONTAINING PANTOTHENIC AC	10
5. With regard to the <b>abstract,</b>		
the text is approved as su	ibmitted by the applicant	
the text has been establis	shed, according to Rule 38.2(b), by this Author	ority as it appears in Box III. The applicant may,
	e date of mailing of this international search r	eport, submit comments to this Authority.
6. The figure of the <b>drawings</b> to be publication	· ·	Ness of the Course
as suggested by the appli		None of the figures.
because the applicant fail	*-	
Decause this figure better	characterizes the invention.	

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/US 00/17638

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K7/50 A61K7/00

A61K7/48

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{A61K} \end{array}$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal, CHEM ABS Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Χ	EP 0 287 876 A (HENKEL) 26 October 1988 (1988-10-26)	1,2
Υ	claim 1; table 1	.3-10
Υ	US 5 804 205 A (EPSTEIN ET AL.) 8 September 1998 (1998-09-08) cited in the application claims 1-4; table 1	3-6,8-10
Y	WO 97 39733 A (THE PROCTER & GAMBLE COMPANY) 30 October 1997 (1997-10-30) example 1 page 19, line 19 - line 29 page 9, line 27 page 5, line 33 -page 8, line 34	7,8

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> <li>"E" later document published after the international filing or priority date and not in conflict with the application cited to understand the principle or theory underlyin invention</li> <li>"X" document of particular relevance; the claimed inventic cannot be considered novel or cannot be considered involve an inventive step when the document is take document of particular relevance; the claimed inventic cannot be considered novel or cannot be consid</li></ul>	
Date of the actual completion of the international search	Date of mailing of the international search report
19 October 2000	25/10/2000
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Alvarez Alvarez, C

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### INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 00/17638

Category °	cition) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Dolovost to slain 11:	
Jategory <sup>3</sup>	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Y	WO 96 03970 A (WITCO CORPORATION) 15 February 1996 (1996-02-15) page 1, line 4 - line 6 page 3, line 7 - line 24 page 7, line 27 -page 9, line 25 page 16 "Formulation 1-1" page 27 "Formulation 3-3" page 28 "Formulation 3-4" claims 12-21	7	
Α	WO 99 27904 A (S.C.JOHNSON & SON INC.) 10 June 1999 (1999-06-10) cited in the application table 1 page 11, line 10 - line 22 page 12, line 5 - line 21	1,2	
:			

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### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 00/17638

Patent document cited in search repo	rt	Publication date		Patent family member(s)	Publication date
EP 287876	Α	26-10-1988	DE	3711841 A	27-10-1988
			AT	84964 T	15-02-1993
			DE	3877800 A	11-03-1993
			ES	2046225 T	01-02-1994
			JP	2749816 B	13-05-1998
			JP	63258804 A	26-10-1988
			US	4900545 A	13-02-1990
US 5804205	Α	08-09-1998	AU	7462396 A	10-09-1997
			CA	2247381 A	28-08-1997
			WO	9730679 A	28-08-1997
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		•	AU	3115097 A	12-11-1997
			CA	2251790 A	30-10-1997
			CN	1219871 A	16-06-1999
			CZ	9803422 A	17-02-1999
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			MO	9739734 A	30-10-1997
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			AU	689940 B	09-04-1998
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			EP	1035832 A	20-09-2000